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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 07/23/2003 Amit Ramchandran 021202-003720US 1300 10/626,479 **EXAMINER** 37490 7590 11/17/2006 Trellis Intellectual Property Law Group, PC COLEMAN, ERIC 1900 EMBARCADERO ROAD ART UNIT PAPER NUMBER SUITE 109 PALO ALTO, CA 94303 2183

DATE MAILED: 11/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action

Application No.	Applicant(s)		
10/626,479	RAMCHANDRAN, AMIT		
Examiner	Art Unit		
Eric Coleman	2183		

Before the Filing of an A	Appeal Brief	Examiner	Art Unit		
		Eric Coleman	2183		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
THE REPLY FILED 27 October 2006 FA	AILS TO PLACE THIS A	APPLICATION IN CONDITION FOR	RALLOWANCE.		
<ol> <li>The reply was filed after a final rej this application, applicant must tin places the application in condition</li> </ol>	ection, but prior to or on nely file one of the follov n for allowance; (2) a No		Appeal. To avoid aba idavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)	
a) The period for reply expires 4 months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee ave been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee					
under 37 CFR 1.17(a) is calculated from: (1) set forth in (b) above, if checked. Any reply may reduce any earned patent term adjustm	received by the Office later lent. See 37 CFR 1.704(b)	r than three months after the mailing da ).	te of the final rejection, o	even if timely filed,	
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS					
	d after a final rejection.	but prior to the date of filing a brief.	will not be entered b	ecause	
<ol> <li>The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because         <ul> <li>(a) They raise new issues that would require further consideration and/or search (see NOTE below);</li> </ul> </li> </ol>					
(b) They raise the issue of new matter (see NOTE below);					
(c) They are not deemed to pla appeal; and/or	ce the application in be	tter form for appeal by materially re	ducing or simplifying	the issues for	
(d) ☐ They present additional clai NOTE: (See 37 CF	<del>-</del>	corresponding number of finally rej	ected claims.		
4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).					
5. Applicant's reply has overcome the following rejection(s):					
Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).					
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.  The status of the claim(s) is (or will be) as follows:					
Claim(s) allowed:	ili be) as follows.				
Claim(s) objected to:			·		
	Claim(s) rejected: <u>1,2,5-8 and 11-20</u> .				
Claim(s) withdrawn from consider AFFIDAVIT OR OTHER EVIDENCE	ation:				
3.  The affidavit or other evidence file	le a showing of good an	ut before or on the date of filing a North day the affiday			
The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).					
10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.  REQUEST FOR RECONSIDERATION/OTHER					
11.  The request for reconsideration See Continuation Sheet.	has been considered bu	ut does NOT place the application in	n condition for allowa	nce because:	
12. Note the attached Information Di	isclosure Statement(s).	(PTO/SB/08) Paper No(s)			
			The les		
			Eric Coleman Primary Examiner		

Continuation of 11. does NOT place the application in condition for allowance because: of the reasons stated in the final rejection. The features of claims 3,4 and 9-10 are incorporated into the corresponding independent claims and therefore the arguments for claims 3,4,9,10 now apply to the corresponding independent claims. Applicant argues that Suzuki performs single and multiple cycle calculations but alleges that Bartkowiak can only retain data during the timeslot for which the information is available therefore the two reference could not be combined. The Examiner however contends that Bartkowiak taught (e.g., see col. 5, lines 10-20) that the functional units can operate on single cycle operation and operations where mutiple cycles elaspe during performance of the instruction operation. Since the data would have been input to the functional unit when the previous operation had completed then the data would have been held in the registers for multiple cycles in both Suzuki and Bartkwiak reference when multiple cycle operations were performed. Applicant further alleges that Suzuki does not teach the pairs of registers are allegedly not coupled as claimed. The Examiner contends that the registers are coupled in a manner that meets the claimed invention. Suzuki taught data that is used to control whether whether pairs of pipeline registers are loaded[e.g., see fig. 4 where pipeline registers (106,34,32,102) are paired and selectively received data at same time or with time delay (104), see paragraphs 7 and 8 of the final rejection. The applicant argues a 7-bit control word to allow cascading or 72-bit operations and a most significant bit determines whether one or bothof the input pipeine registers in a pair are load however these combination of features are not claimed. Edwards taught the part of this combination that was claimed. The combination of this feature with being able to use a data value if that value is ready at time just before the execution stage of the instruction is not claimed. However the Suzuki system provides for use of a data value if the a data value is ready using the selectors (e.g. see fig. 13). The Examiner contends that even if the four pipeline registers operate as two pairs they provide the limitations in the claim as detailed in the outstanding rejection. Applicant alleges that Edwards cannot be combined with Suzuki however even is the type of gates implemented in the two references are different there is no requirement in 35 U.S.C. 103 that each element of one reference is the same or even compatible with each element of another reference but instead that the combination of the teachings of the references were obvious. One of ordinary skill would have recognized that use of gates that there were industry standard gates would have been used depending on the considerations of the circuit and cost etc. Therefore, the Examiner contends that one of ordinary skill would have been motivated incorporate the teachings of Edwards into the Suzuki teachings. While every element of one reference may have not been completely compatible with every element of another reference the compatibility issues would have been within the level of skill of one of ordinary skill to remedy. As to the portion of claim 13 noted by the Applicant namely that the input register being configured to store a value received from the bus at the beginning or end of the first clock cycle. In Suzuki operation of the pipeline is clocked (e.g., see fig. 12). The use of leading edge or trailing edge triggering of the operations was well known alternatives for implementing synchronous control of tranfer of data. One of ordinary skill would have been motivated to use either a edge triggering for precise control of clocking and the method would have provided for triggering at the beginning or end of a cycle. The clocking in figure 12 of Suzuki provide for data trigger for input or output at the beginning or end or a clock cycle. As to the loading of constant Suzuki taught the loading of data for processing of instructions (e.g. see col. 2. lines 13-46). A constant is merely data the does not change and in the processing of instructions clearly it would a been obvious to one of ordinary skill that data used for calculations at times would incorporate constants (e.g., data stored in the Suzuki flops or registerfile suchas standard constants for use in data conversions). Also the operation of the claimed invention does not change whether the data is a constant or not and therefore the use of any data of a size that could be processed by Suzuki would have been obvious in view of Suzuki.